

Title (en)

SYSTEMS AND METHODS TO PRECISELY CONTROL OUTPUT PRESSURE IN BUFFERED SPRAYERS

Title (de)

SYSTEME UND VERFAHREN ZUR PRÄZISEN STEUERUNG DES AUSGANGSDRUCKS IN GEPUFFERTEN ZERSTÄUBERN

Title (fr)

SYSTÈMES ET PROCÉDÉS POUR LE CONTRÔLE PRÉCIS DE LA PRESSION DE SORTIE DANS DES PULVÉRISATEURS DE TAMPON

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Application

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Abstract (en)

A liquid dispensing device is disclosed comprising a dispensing head, which in turn comprises an inlet valve, a piston (3) and a piston chamber, and an actuator for controlling the piston (3). The dispensing head further comprises a buffer (6) in fluid communication with the piston chamber, an outlet valve having a defined minimum opening pressure in fluid communication with one of (i) the buffer and (ii) the buffer and the piston chamber, and a nozzle (9) with a defined throughput in fluid communication with the outlet valve. The buffer is a gas buffer (6) comprising a gas-filled buffer bag made from a flexible material and arranged in a buffer housing.

IPC 8 full level

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C-Set (source: EP US)

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Citation (applicant)

- US 201213467971 A 20120509
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- US 201213623860 A 20120920

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[XA] JP 2010228794 A 20101014 - MITANI VALVE CO LTD

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